HERNIS

HWIN
CCTV Camera Control Application

COOPER

HWIN - Camera control and Video management

HWIN is the primary application for control of cameras in HERNIS CCTV systems. Extensive CCTV expertise combined with the latest technology available has culminated in a highly efficient CCTV management environment with a professional design. The interface gives preference to video management in one or multiple views by choice, and navigation is highly flexible bringing user experience to a new level.

The HWIN application is available in two editions.

HWIN Standard - designed for efficiency

The HWIN Standard edition is typically used to control cameras in small to medium sized CCTV systems. The new design emphasises the user-experience, and offers state-of-the-art navigation features such as multiple video panes, drag & drop functionality, pop-up menus and tooltips. Instant access to recordings, easy camera browsing, snapshot and local recording functions are other features at your fingertips. Setting up camera sequences, multicamera switching, alarm actions and other configuration is all done in an intuitive environment optimising the user experience. HWIN Standard may be upgraded to HWIN Advanced.

HWIN Advanced - adding a new dimension to CCTV

HWIN Advanced is the ultimate tool for controlling cameras in medium to large CCTV systems. With this application HERNIS takes CCTV one step further. The software supports multi-system-access*, meaning that from one single work station you can now log on to multiple external CCTV systems on remote locations adding a whole new dimension to your CCTV architecture! Whilst logging on to his local CCTV system, the user can access and control any external HERNIS 500 CCTV systems that he is authorized for, hence enabling him to control a virtually unlimited number of cameras spread over vast geographical areas.

To stay oriented in the volumes of cameras and information in complex CCTV systems, HWIN advanced offers layered maps with camera and alarm identifiers (hotspots) for quick navigation. Drag-&-drop, pop-up menus, tooltips and other features further contribute to easy use.

*Linking multiple CCTV systems requires a Local Area Network.

The 4 Application modes

HWIN has 4 application modes, fulfilling these key purposes:

1. The Connection Mode – is mainly used for Logging on and off the CCTV system, but this is also where you do the application set-up to create the most effective work space for yourself.
2. The Live Mode – is the normal operating mode used for all live functions such as viewing live video, controlling the cameras, using presets, maps, video splits and more.
3. The Playback Mode – is used to access any video or images that has been stored in the HERNIS 500 Video Recorders and on your local hard disk.
4. The Configuration Mode – is used to define cameras, camera groups, sequences, multi switches, alarm actions and more. Some configurations are limited to spesific User Access Levels.

The 4 User Access Levels

The system facilitates different user access levels. These are: Guest - Operator - Supervisor - Service.

Your access level determines what configuration you are allowed to use in the CCTV system. Furthermore specific cameras in the CCTV system can be reserved for users with specific privileges.

Navigation and Control

With the latest technology available HERNIS has taken navigation to a new level. With alternative optional tools available every user can find his preferred way of managing video and cameras in the system. The new features are intuitive and time-saving, enhancing the user experience.

The main means of navigation are:

Drag & Drop - drag a camera or a sequence from the list and drop it on a video pane to view the video.

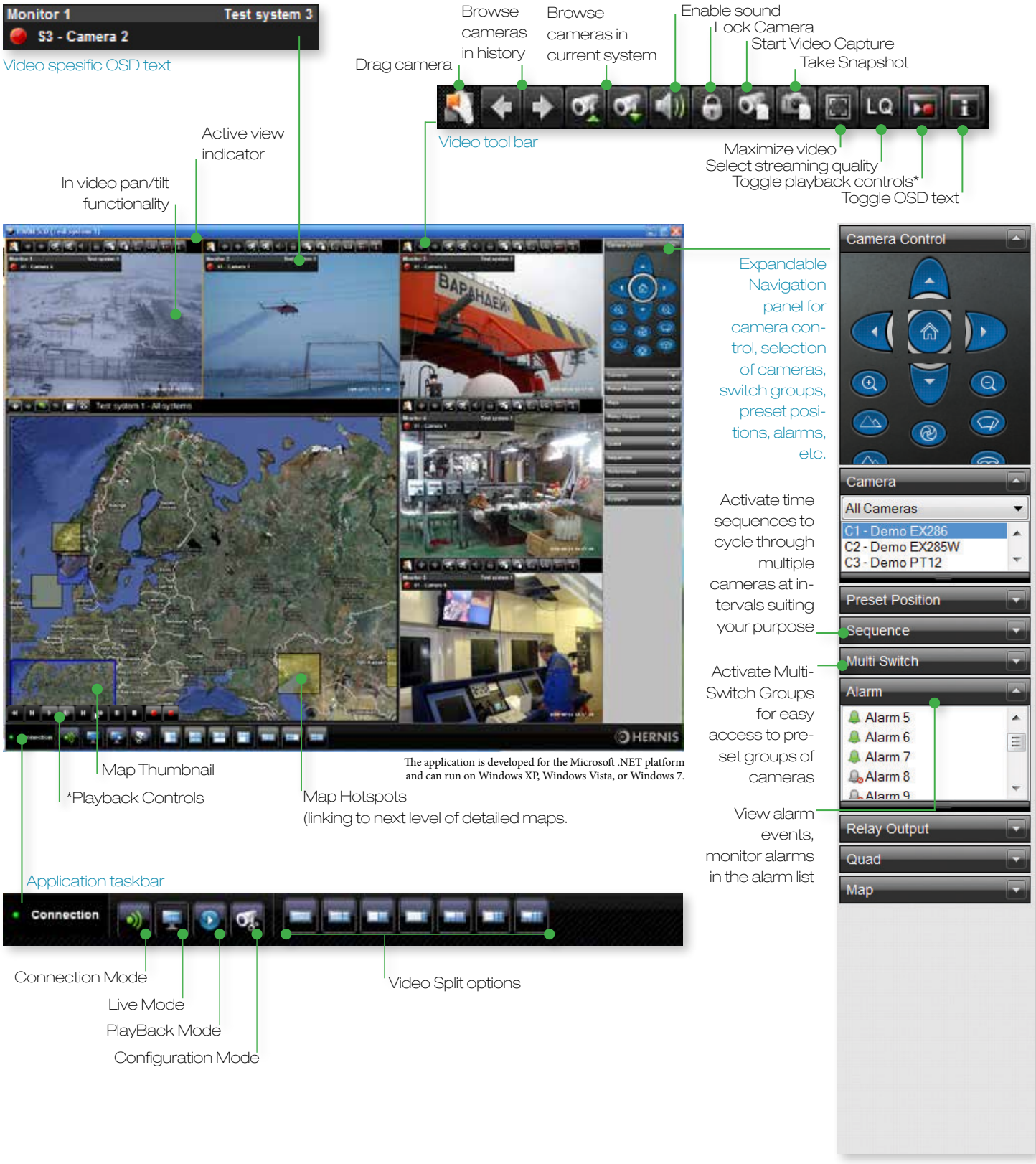
In-video pan/tilt - click directly in the video view to pan & tilt the camera. The pan & tilt speed depends on your position off centre.

Maps – find and select cameras, alarms etc. by navigating the maps and interacting with the hotspots (graphical camera and alarm identifiers).

Dynamic Context Menus - right click on any map, map hotspot, video, camera, preset position, alarm etc. to view a context menu/tools related to the type of object you clicked.

Toolbars – the most relevant functionality is easy to get at in the strategically positioned toolbars available throughout the application (see illustrations). For video functionality such as sound, video quality, snapshot and local recording are available in the appurtenant video control toolbar.

Joystick – control cameras and Pan/Tilt/Zoom on 3-axis joystick with fully configurable buttons (Iris, Focus, Wipe, Wash, Camera Selection, Preset selection, Next/Previous camera)



The application is developed for the Microsoft .NET platform and can run on Windows XP, Windows Vista, or Windows 7.

Tool-Tip – hold the mouse cursor over buttons or other objects of interest for a brief functional description.

Main menu – structure showing all the controls in your CCTV system. Camera list, alarm list etc. can be collapsed, resized or hidden according to your need.

Navigation toolbar – toolbar appurtinant to the entire application window. Used to select application modes (Connection/Live/Playback/Configuration) or Video Splits.

Maps

HWIN Advanced offers high-tech map navigation. Maps provide the overview needed to navigate quickly on the one hand, and the appropriate level of detail easily at hand on the other. Detailed maps showing camera and alarm positions (hotspots) allow for easy drag & drop onto monitors to show real time video.
The new design attends to the CCTV operator's need for quick and easy navigation on complex sites, or even in multiple CCTV systems combined*. In the case of multi-system access the top map would typically show system hotspots, each linked to underlaying detailed maps showing the camera and alarm hotspots on the site. A map thumbnail indicates the scope of the map you have selected.

The maps can be black and white drawings, aerial views, photos or custom made, as long as the image is PNG, JPG or GIF or any format that can be exported to either one of them.

The maps are configured in the HERNIS application (HAS).

Video and Video-splits

The new HWIN can display multiple video feeds at the same time. The videos can easily be organized in different splits in the HWIN configuration module. This is supported for both HERNIS 400, 500 and Flex systems.

Once configured, the splits can be selected by the operator without leaving the Live View mode. HWIN currently supports splits ranging from one video, two videos plus map, up to nine video feeds. (Whether HWIN can decode and display multiple video feeds depends on the speed and graphics card of the computer running HWIN). Video from multiple CCTV systems may be viewed at the same time in any of the split views. HWIN supports streamers and grabber cards in addition to video from HERNIS 500 and HERNIS Flex video servers.

Alarms

HERNIS CCTV systems may be configured to carry out specific tasks in the event of an alarm. One typical alarm action would be to make a recording with retroactive effect of for instance 10 seconds, making sure the event leading to the alarm is recorded and archived. Another typical alarm event would be to relaying video from a specific camera to a specific monitor. This is easily configured in the HWIN configuration pages. Alarms are signalled in the maps, in the alarm list, on the monitor and in the split menu in the navigation toolbar. Alarm recordings may only be deleted upon confirmation by authorised personnel.

Playback

Camera recordings in the HERNIS 500 and Flex systems are stored until the server is full and must free up disk space; the oldest recording is deleted to free disk space for new recordings*. The total recording capacity for a camera depends on the size of the hard disk, the compression settings and what the camera is recording. Recordings are easily viewed and downloaded to the local hard disk from the Playback mode in HWIN.
*Note! This does not apply to Alarm recordings that are write-protected and may only be deleted upon confirmation by an authorised user.

OSD text

The OSD text helps identify video easily. Key information is displayed;

- Name of Monitor
- Name of CCTV system that the camera belongs to
- Status (recording/playback)
- Name of camera
- Name of preset position
- Alarm information if an alarm is triggered on the monitor

The subtitles can easily be hidden. This is typically done in small systems with only one monitor and camera.

Relay Outputs

With the Relay Output menu you control output from the CCTV system such as Light, Buzzers, Doors, Alarms to others systems etc. This can typically be used to open doors upon verification of personell via live video.

DVRs

In analogue systems DVRs handle the recording and playback of video.

Quad

Quads enable split views in analogue systems. Once the configuration is done the user experience is the same in analogue and digital systems.

Configuration

Configuration includes

- Camera Groups
- Multi Switches
- Sequences
- Alarm Actions
- Camera names and Preset Positions
- Service Settings
- Alarm, Monitor and Camera Statuses

Camera Groups – Easy configuration of user-specific groups of favourite or related cameras in the system. The Camera Groups are displayed in the Main Menu.

Multi Switches – Easy configuration of groups of cameras, in predefined positions, to be selected to predefined monitors or split views in one operation.

Sequences – Easy configuration of sequences. A sequence is a systematic loop of images from different cameras and/or camera positions shown at set intervals on a spesific monitor/split.

Alarm Actions – Easy configuration of events to be triggered by an alarm. Typical events would be selecting a specific camera to a specific monitor, activating relay outputs like light, sirens etc, initiating recording to DVR and initiating alarm archive recordings.

Camera Configuration – Easy configuration of Camera Names and Preset Positions. Each camera may have up to 100 preset positions. A preset position can involve Pan, Tilt, Zoom and Focus depending on what functions are available on the camera station.

Service Settings – Easy configuration of video parameters (brightness, contrast, saturation, hue), home position (predefined position to which the camera will return after elapsed idle timeout) and pan/tilt settings. The settings can be done individually for each camera in the system.

Status Information – Quick overview of system statuses like camera lock status, monitor status etc.

HERNIS CCTV Software Clients

HWIN Standard

HERNIS' CCTV expertise combined with the latest technology available has culminated in a state-of-the-art, highly efficient CCTV management environment. The professional design gives preference to video management in one or multiple views. You can easily configure your individual needs-oriented work space. Drag-&-drop, pop-up menus, tooltips and other optional tools make operations float.

HWIN Advanced

With the virtually unlimited possibilities of HWIN Advanced you are prepared for the future! This state-of-the art CCTV control solution supports multi-system access; from one single work station you can log on to external CCTV systems at remote locations adding a whole new dimension to your CCTV architecture. Layered maps with advanced camera and alarm identifiers provide the structure and accessibility needed to handle volumes of information in medium to large CCTV systems or even societies. This application is well suited for collaboration rooms.

HWIN Web

The HWIN Web is a down-scaled version of HWIN Advanced that will allow you to connect to HERNIS CCTV systems over the internet / intranet. The application runs on a Web Server set up with secure HTTP, and you use Internet Explorer to access the web page and log on to the system. HWIN Web offers navigation by maps that show the location of camera stations, and lets you select camera directly. Activating preset positions on pan/tilt cameras, and playing back recorded video from the HERNIS CCTV system are other valued features of HWIN Web.

HERNIS Alarm Management (HAM) Standard

The standard version of the HERNIS Alarm Management application provides easy access to alarms and video recordings made in connection with alarms in your CCTV system. Advanced alarm handling tools enable quick review of alarms allowing immediate and appropriate action in critical situations.

HERNIS Alarm Management (HAM) Advanced

The advanced version of the HERNIS Alarm Management application has all the powerful features of the standard version, plus support of multiple systems and maps. With this one application you can monitor, manage and log alarms in multiple CCTV systems. This application is well suited for collaboration rooms.

HERNIS System Maintenance (HSM)

Besides being the main system maintenance tool for upgrading camera or node firmware etc, the HERNIS System Maintenance application is your time saving, efficient trouble shooter. From any workstation connected to the CCTV LAN you can monitor the "health" of your HERNIS CCTV System, pinpointing any malfunction or damage requiring attention. No lengthy searches for faults!

Notes:

HWIN

Camera Control & Video Management

HERNIS

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